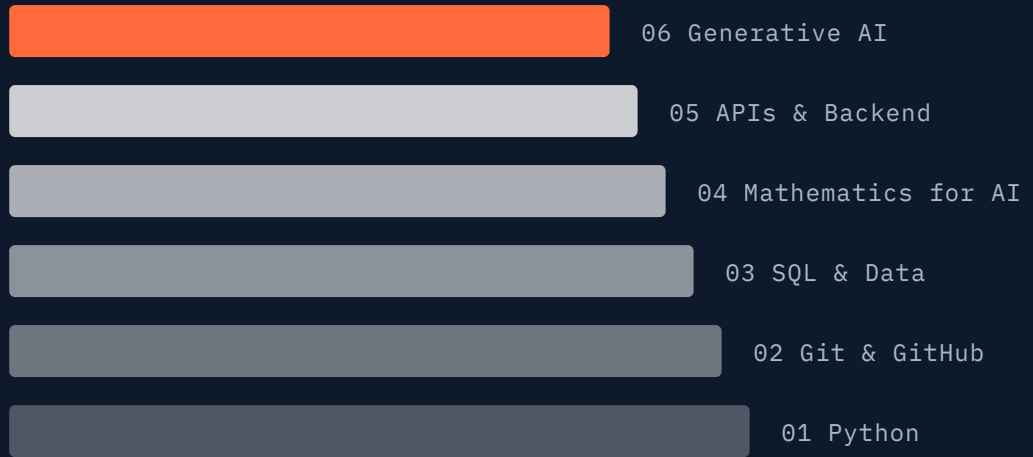




Fullstack Intelligence

Code, data, systems and AI, learned as one stack.

Offered by **SABTEEU LIMITED**

12 months · 100% virtual · Starts 4 January 2027

sabteeu.com/fsi

AI is not one skill. It is a stack.

Behind every AI assistant, recommendation or automated report sits ordinary, well-built software: Python code, version control, data, a little mathematics and APIs, with a model on top.

Most learners meet these as six separate topics, from six different tutorials, in no particular order. They collect knowledge but struggle to connect it.

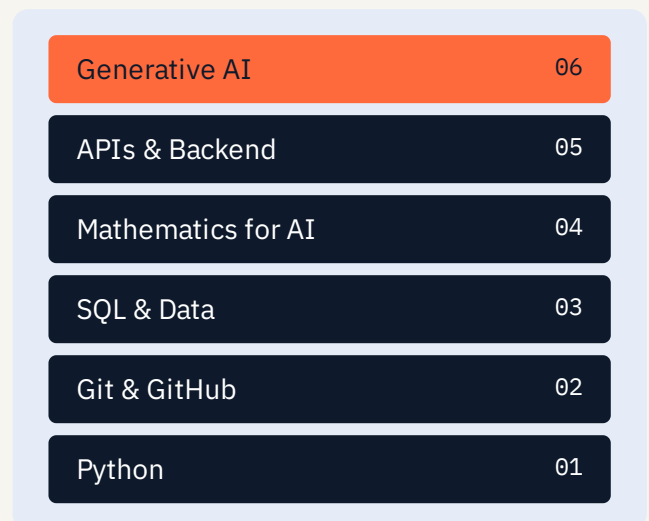
Fullstack Intelligence starts from a different premise: learn the layers in the order they depend on each other, and build something real at every step.

How most people learn



Separate topics, no clear order.

How Fullstack Intelligence teaches



One stack, each layer built on the last.

The Six-Layer Curriculum

Each layer is a module. Each module ends in a project. Each project builds on the last, and the capstone joins them all.

CAP

Capstone · AI Data Analyst

Nov–Dec 2027

Uses all six layers

PHASE III · SYSTEMS AND INTELLIGENCE

06

Generative AI

Sep–Oct 2027

Project: Document Q&A Assistant

05

APIs & Backend

Jul–Aug 2027

Project: Data Service API

PHASE II · DATA AND INTUITION

04

Mathematics for AI

Jun 2027

Project: Intuition Notebook

03

SQL & Data

Apr–May 2027

Project: Analytics Query Pack

PHASE I · FOUNDATIONS

02

Git & GitHub

Mar 2027

Project: Open Portfolio Repository

01

Python Foundations

Jan–Feb 2027

Project: Personal Data Toolkit

Foundations. Write code. Keep it professionally.

Data and intuition. Work with data. Understand what models do with it.

Systems and intelligence. Build services. Put AI behind them.

01

Python Foundations

Phase I · Foundations
January–February 2027

- THE STACK
- 06 Generative AI
 - 05 APIs & Backend
 - 04 Mathematics
 - 03 SQL & Data
 - 02 Git & GitHub
 - 01 Python

Start with the language of data and AI.

Write, read and debug real programs from the first lesson. Every later module is built in Python.

```
# toolkit.py

import csv

rows = list(csv.DictReader(open("sales.csv")))
clean = [r for r in rows if r["amount"]]
total = sum(float(r["amount"]) for r in clean)

print(len(clean), "rows · total", round(total, 2))
```

WHAT YOU’LL EXPLORE

- Variables, data types and control flow
- Functions, data structures and files
- Errors, debugging and readable code
- Reading and improving other people’s code
- Daily problem-solving practice

LEARN WITH

- freeCodeCamp
- Real Python
- W3Schools
- Exercism
- HackerRank

CERTIFICATION OPTIONS

HackerRank Python (Basic)	Free
Python Institute PCEP	From USD 69
Optional. Exam fees are paid directly to each provider.	

PROJECT 01

Personal Data Toolkit

A command-line tool that cleans a messy CSV file and prints a clear summary.

02

Git & GitHub

Phase I · Foundations

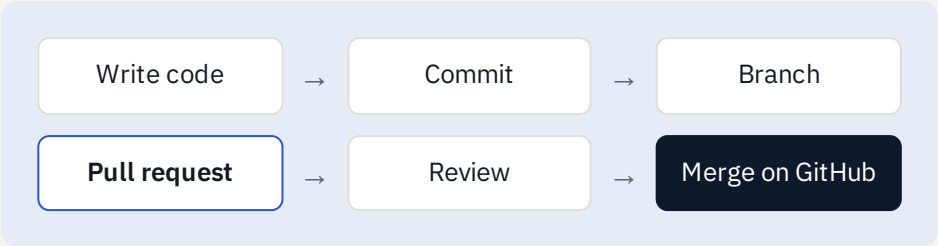
March 2027

THE STACK

- 06 Generative AI
- 05 APIs & Backend
- 04 Mathematics
- 03 SQL & Data
- 02 Git & GitHub**
- 01 Python

Work like a professional team from day one.

Every project you build lives in a public, versioned repository, with a history that shows how you work.



WHAT YOU'LL EXPLORE

Repositories, commits and branches

Merging and resolving conflicts

Pull requests and code review

READMEs, issues and documentation

A public GitHub portfolio

LEARN WITH

- Learn Git Branching
- GitHub Skills
- Atlassian Git Tutorials
- freeCodeCamp
- Codecademy

CERTIFICATION OPTIONS

GitHub Foundations (GH-900) Fee set by country

Optional. Exam fees are paid directly to each provider.

PROJECT 02

Open Portfolio Repository

A public GitHub profile hosting your Module 01 project, with a clear README and a pull-request history.

03

SQL & Data

Phase II · Data and Intuition

April-May 2027

THE STACK

- 06 Generative AI
- 05 APIs & Backend
- 04 Mathematics
- 03 SQL & Data**
- 02 Git & GitHub
- 01 Python

SQL is the bridge between applications and decisions.

Turn a business question into a precise query, then explain the answer in one sentence.

```
SELECT region, SUM(amount) AS
revenue
FROM orders
GROUP BY region
ORDER BY revenue DESC;
```

region	revenue
Region A	...
Region B	...
Region C	...

WHAT YOU’LL EXPLORE

- SELECT, filtering, sorting and aggregation
- JOINS, subqueries and window functions
- From business question to query
- Interview-style SQL challenges
- Explaining results clearly

LEARN WITH

- SQL Bolt
- SQLZoo
- HackerRank
- DataLemur
- StrataScratch

CERTIFICATION OPTIONS

HackerRank SQL (Basic to Advanced)	Free
freeCodeCamp Relational Databases	Free
Microsoft Azure Data Fundamentals (DP-900)	Fee set by country

Optional. Exam fees are paid directly to each provider.

PROJECT 03

Analytics Query Pack

Twenty business questions answered with documented SQL on a public dataset.

04

Mathematics for AI

Phase II · Data and Intuition

June 2027

THE STACK

- 06 Generative AI
- 05 APIs & Backend
- 04 Mathematics**
- 03 SQL & Data
- 02 Git & GitHub
- 01 Python

The intuition behind the intelligence.

No proofs to memorise. Just the ideas that models are made of, explored visually and in code.

$f(x)$
Algebra
the language of functions

P
Probability
reasoning under uncertainty

μ, σ
Statistics
learning from data

$[v]$
Linear algebra
how models represent meaning

∂
Calculus
how models learn

WHAT YOU'LL EXPLORE

- Functions and algebra
- Probability and distributions
- Statistics: learning from data
- Vectors, matrices and similarity
- Gradients and how models learn

LEARN WITH

- Khan Academy
- 3Blue1Brown
- StatQuest
- Seeing Theory
- Brilliant

CERTIFICATION OPTIONS

- No exam for this module
- Your notebook is the evidence

PROJECT 04

Intuition Notebook

An illustrated notebook that builds and trains a tiny model by hand.

05

APIs & Backend

Phase III · Systems and Intelligence

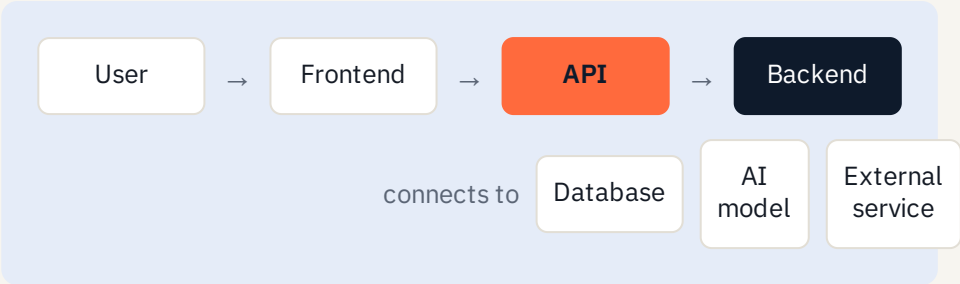
July–August 2027

THE STACK

- 06 Generative AI
- 05 APIs & Backend**
- 04 Mathematics
- 03 SQL & Data
- 02 Git & GitHub
- 01 Python

How modern software talks to itself.

Build, test and document the services that connect applications, data and AI models.



WHAT YOU’LL EXPLORE

HTTP, REST and JSON

Endpoints, validation and authentication basics

Testing APIs with Postman

Building services with FastAPI

Documentation and backend architecture

LEARN WITH

- roadmap.sh
- MDN Web Docs
- Postman Academy
- FastAPI
- freeCodeCamp

CERTIFICATION OPTIONS

HackerRank REST API (Intermediate) Free

Python Institute PCAP From USD 295

Optional. Exam fees are paid directly to each provider.

PROJECT 05

Data Service API

A tested FastAPI service, with generated documentation, that serves your Module 03 dataset.

06

Generative AI

Phase III · Systems and Intelligence

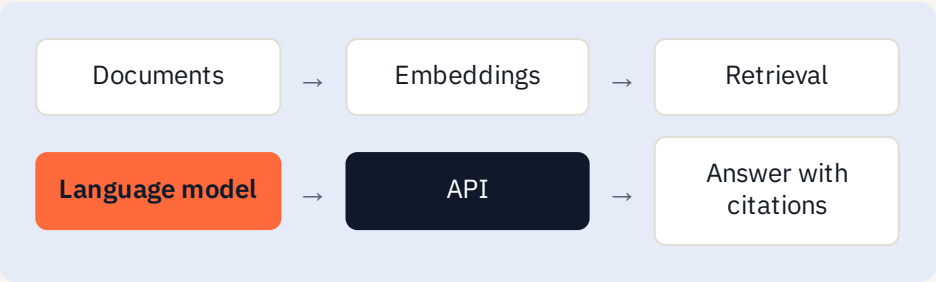
September–October 2027

THE STACK

- 06 Generative AI
- 05 APIs & Backend
- 04 Mathematics
- 03 SQL & Data
- 02 Git & GitHub
- 01 Python

Build with AI, not just use it.

From how transformers work to an assistant that answers questions and cites its sources.



WHAT YOU’LL EXPLORE

Large language models and transformers

Open and hosted model ecosystems

Prompting, embeddings and retrieval

LangChain and LangGraph: chains, tools, agents

Evaluation and responsible use

LEARN WITH

- DeepLearning.AI
- Hugging Face
- LangChain Academy
- Microsoft Learn
- Google AI

CERTIFICATION OPTIONS

Google Cloud Generative AI Leader	USD 99
AWS Certified AI Practitioner	USD 100
NVIDIA Generative AI LLMs Associate	USD 125
Microsoft Azure AI Fundamentals (AI-901)	Fee set by country

Optional. Exam fees are paid directly to each provider.

PROJECT 06

Document Q&A Assistant

An assistant that answers questions about a set of documents and cites them.

PROJECTS

Seven projects. One portfolio. One story.

Each project reuses the one before it, so your GitHub portfolio shows a single, connected body of work.

01

Personal Data Toolkit

A working Python tool for messy data.
Python



02

Open Portfolio Repository

A professional GitHub presence.
Git · GitHub



03

Analytics Query Pack

Twenty real questions answered in SQL.
SQL · Python



04

Intuition Notebook

A tiny model, built and explained by hand.
Python · NumPy · Jupyter



05

Data Service API

A tested, documented API service.
FastAPI · SQL · Postman



06

Document Q&A Assistant

An AI assistant that cites its sources.
LLM API · Hugging Face · LangChain



CAP

Capstone: AI Data Analyst

Plain-language questions in, explained answers out.
All six layers



● Dots show relative difficulty, from foundation to advanced.

Structured path. Real practitioners. Practical work.

A defined sequence

Six modules over 12 months, in the order the skills depend on each other.

Taught by practitioners

Experienced developers and technology leaders guide each module.

Supported throughout

Dedicated learner support from enrolment to your final exam.

Established resources

26 widely used learning platforms and official documentation.

Build as you learn

Exercises in every module and a portfolio project at the end of each.

Virtual by design

Join from anywhere, fully online. In-person participation on request.

YOUR FACULTY



Ahmed Olanrewaju

AI capacity builder and tech mentor



Ayo Oluyinka

Infrastructure, Cloud and Platform Engineering leader, RX (Reed Exhibitions)



Hammed Ibrahim

Financial Modeller and Data Scientist

Learn from people who build.

A CURATED LEARNING ECOSYSTEM

Python	freeCodeCamp · Real Python · Exercism · HackerRank · W3Schools
Git & GitHub	Learn Git Branching · GitHub Skills · Atlassian Git Tutorials · Codecademy
SQL & Data	SQL Bolt · SQLZoo · DataLemur · StrataScratch
Mathematics	Khan Academy · 3Blue1Brown · StatQuest · Seeing Theory · Brilliant
APIs & Backend	roadmap.sh · MDN Web Docs · Postman Academy · FastAPI
Generative AI	DeepLearning.AI · Hugging Face · LangChain Academy · Microsoft Learn · Google AI

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There is a starting point for you.

Beginners

New to code and ready to start properly.

One fixed sequence from zero, with early wins in Python.

[START HERE · MODULE 01](#)

Students

Leave university with projects, not just grades.

Seven portfolio projects in public GitHub repositories.

[START HERE · MODULE 02](#)

Developers

Extend your stack into AI and Python APIs.

Connect what you know to FastAPI, retrieval and LLM apps.

[START HERE · MODULES 05-06](#)

Data professionals

Go beyond dashboards into code and AI.

Interview-grade SQL, Python and the maths behind models.

[START HERE · MODULES 03-04](#)

AI practitioners

Move from using AI tools to building with them.

A GenAI module grounded in the layers beneath it.

[START HERE · MODULE 06](#)

Career switchers

Bring your field's expertise into technology.

A paced route, with a capstone built on your own domain.

[START HERE · MODULE 01](#)

Everything you need to decide.

Offered by	SABTEEU LIMITED
Start date	Monday 4 January 2027
Duration	12 months
Weekly commitment	About 16 hours
Delivery	100% virtual · in-person on request
Faculty	Ahmed Olanrewaju · Ayo Oluyinka · Hammed Ibrahim
Support	Dedicated learner support
Time zone	West Africa Time (WAT, UTC+1)
Register	sabteeu.com/fsi

PROGRAMME FEE

USD 1,000

for the full 12-month programme

40% (USD 400) at enrolment

3 × USD 200 within four months

INCLUDES

- 12-month Six-Layer Curriculum
- Instruction from the faculty
- Dedicated learner support
- Seven portfolio projects
- Certification preparation

CERTIFICATION PATHS (EXAM FEES NOT INCLUDED)

Free path	HackerRank Python, SQL and REST API · freeCodeCamp Relational Databases	USD 0
Essential path	Free path + PCEP + GitHub Foundations + one GenAI exam	About USD 170–195 + GitHub fee
Professional path	Essential + PCAP + DP-900 + AI-901 + NVIDIA NCA-GENL	About USD 490 + Microsoft & GitHub fees

Exam fees are paid directly to each provider, and learners choose which exams to take. Fees as published by providers in October 2026; Microsoft and GitHub set theirs by country.

STARTS 4 JANUARY 2027

Build the stack behind intelligent software.

Six layers. Seven projects. One connected path.

Join the next cohort

sabteeu.com/fsi

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